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3 /R	AA	4,804,744	2/14/89	Sen	530	350						
7	AB	4,774,228	9/27/88	Seyedin	514	21						
	AC	4,774,322	9/27/88	Seyedin	530	353						
	AD	4,434,094	2/28/84	Seyedin and Thomas	530	416						
_	AE	4,627,982	12/9/86	Seyedin and Thomas	424	95						
	AF	4,563,350	1/7/86	Nathan	424	95						
	AG	4,294,753	10/31/81	Unist	530	395						
	AH	4,455,256	6/19/84	Urist	530	350						
	AI	4,968,590	11/6/90	Kuberasampath and Rueger	530	326						
AR.	AJ	4,761,471	8/2/88	Urist	530	350						
777			FORE	GN PATENT DOCUMENTS								
Staminer mitial		Document Number	Date	Country	Class	Subclass	Translation Yes/No					
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	-	OTHE	R DOCUMENTS	(Including Author, Title, Pertinen	t Pages, etc.)							
DR.	CA	Urist et al., Science, 220:	580-686 (1983)									
1	СВ	Luyten et al., The Journal	of Biological Chem	uistry, 264(23) 13377-13380 (Augus	15, 1989)							
	CC	Sampath, et al., Proc. Nati										
	CD	Ozkaynak et al., The EMBO Journal, v.9 No.7: 2085-2093 (1990)										
	CE	Maniatia, T. et al., Molecular Cloning, A Laboratory Manual, Cold Spring Hobar Laboratory, CSH. N.Y. (1982)										
DA.	CF			A., 501 78, pp. 6617 (1981)								
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_	AL		7/21/87	Nathanson	424	95	
	AM	4,681,763	4/12/88	Evans	530	350	
	AN	4,737,578	1/17/89	Mason	530	350	
	AO	4,798,885	3/7/89	Seyedin	514	2	
	AP	4,810,691	6/27/89	Seyedin	514	2	
	AQ	4,843,063			424	423	
	AR	5,011,691	4/30/91	Oppermann	1		
	AS	4,886,747	12/12/89	Deryack	-		
	AT	5,108,753	4/28/92	Kuberasampath			
	AU	5,106,626	4/21/92	Parsons et al.			
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